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Title of Invention: A pasting film for wind glass

Abstract: [ABSTRACT]

Because horizontal of auto sets a sequence of concentration difference along cross direction in particular in affixed film base, and is formed, that it is in the appearance which is a bad form to produce with sudden alteration of concentration difference is prevented, and it is with the embodiment that, as a whole, is sutairitsushiyu.

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[ABSTRACT]

[PROBLEM TO BE SOLVED]

If the front side is reached from the rear portion side so that gradation operation is provided with a forward and backward course of the car body, it is accompanied, and it is gradually light, and it is done, bad form characteristics to produce by a sudden change of the light and shade are prevented, view to be able to put again on the border is found, and there is not, and choice of degree of the light and shade is enabled, and safety can be affixed only in can improve, the handling is facilitated.

[SOLUTION]

The a sequence of light and shade along a forward and backward course of car C are set to film base 1 to affix to side wind department W in car C, and it is formed. If it is light by the density in the rear portion side of car C with denseness part 2 thickened the density, and, to film base 1, \*hakubu 4 is reached from denseness region 2 to the front side of car C with \*hakubu 4 it is thin - is done transparently, it is accompanied, and it is gradually light, and it is to a thing it becomes thin - is transparent, it is shaded off, and a division forms part 3 to the intermediate portion husbands whom there is between denseness region 2 and \*hakubu 4, and it is comprised. In addition, Placement is comprised and heavy department 2, shading off department 3, four \*hakubu husbands form a division to one film base husbands every one unit to use or and it is done than the number of one units.

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[CLAIM FOR THE UTILITY MODEL REGISTRATION]

[Claim 1]

In a pasting film for wind glass affixed to a wind department in a car, A pasting film for wind glass, wherein; The a sequence of light and shade to comply in the horizontal direction of a car were set to an affixed film base, and it was formed.

[Claim 2]

A wind glass business pasting film as claimed in claim 1 that there are the light and shade set by a film base along a forward and backward course of a side wind department.

[Claim 3]

If it is light by the density in the rear portion side of a car in a denseness part thickened the density, and, to a film base, \*hakubu is reached from denseness region to the front side of a car in \*hakubu it is thin - is done transparently, it is a wind glass business pasting film as claimed in division formed claim 2 to the intermediate portion husbands whom it is shaded off, and there is between denseness region and \*hakubu in a part that it is accompanied, and it is gradually light, and it is to a thing it becomes thin - is transparent.

[Claim 4]

A wind glass business pasting film as claimed in claim 3 that a heavy department, shading off part, \*hakubufu section to film base husbands every one used unit, and is formed.

[Claim 5]

A wind glass business pasting film as claimed in heavy department, shading off part, claim 3 that film base 1 which \*hakubufu sections, and is formed is done than the number of the units, and it is placed, and is comprised or 4.

[Claim 6]

In a pasting film for wind glass affixed to a side wind department in a car, A pasting film for wind glass, wherein; If it is light by the density in the rear portion side of a car in a denseness part thickened the density to an affixed film base, and \*hakubu is reached from denseness region to the front side of a car in \*hakubu it is thin - is done transparently, it is accompanied, and it is gradually light, and it is to a thing it becomes thin - is transparent, it was shaded off, and a division formed a part to the intermediate portion husbands whom there was between denseness region and \*hakubu, and the a sequence of light and shade along front and back direction of a car were set, and these densenesses region was shaded off, and a part, \*hakubufu did than the number of every one used unit or one units, and it was formed.

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## [BRIEF DESCRIPTION OF DRAWINGS]

### [FIG. 1]

It is a perspective diagram of a use state to show detailed description of the preferred embodiment of this invention.

### [FIG. 2]

Similarly it is an essential part perspective diagram of a use state in other detailed description of the preferred embodiment.

### [FIG. 3]

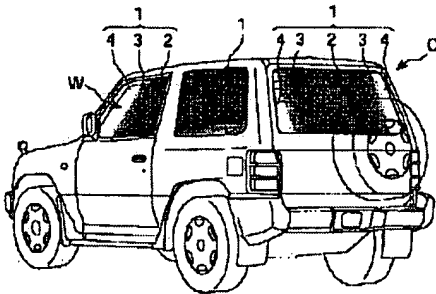
Similarly it is a plane view of film in itself shown in a mark simulating one form of gradation of the light and shade.

### [FIG. 4]

It is a perspective diagram of a use state in a conventional pasting film.

## [DENOTATION OF REFERENCE NUMERALS]

Four three two 1 long ... film base ... densenesses region ... shading off region ... \*hakubu  
10A ... non-seeing through film 10B ... seeing through films of length L3 ... \*hakubu of  
length L2 ... shading off region of length L1 ... denseness region of a C ... car W ... side  
wind department L ... film base



## [DETAILED DESCRIPTION OF THE INVENTION]

[0001]

### [FIELD OF THE INVENTION]

This invention is mainly affixed to a side in a car or rear wind department, if it is particularly dark so that seeing through characteristics go low in the side wind region, and seeing through characteristics are high, and the front side which is set front wind region is reached from the rear side that is set rear wind region, the wind glass business pasting film which did is related to for the appearance by the gradation that it is accompanied, and is approximately set along a horizontal direction to become gradually light for the purpose of appearance becoming good visually.

[0002]

### [PRIOR ART]

In a wind department in a car, dazzling beauty when outside a car is looked at from the inside of car is reduced conventionally, and it is tended the inside of car cannot be easily looked in from outside a car, and to affix a wind film of polarized light characteristics. But when such a wind film was affixed, by reason of the safety that a driver cuts the outside a car situation on the occasion of driving by recognition grasp surely, regulation of law takes place in what the seeing through degree that the outside cannot see through in side wind region, forward front desk wind region of driver's seat right and left affixes a small thing to. Therefore when a driver's seat does not affix a wind film in a side wind department of controlling, forward front desk wind region when wind films such as such a polarized light characteristics are affixed, seeing through characteristics affix a small thing to rear wind region, side wind region of rear seat right and left.

[0003]

### [PROBLEM TO BE SOLVED BY THE INVENTION]

According to the pasting form of such conventional wind film, is affixed non-seeing through film 10A that it is to the thing which is small seeing through characteristics in side rear wind region, rear wind region as shown in FIG. 4, but on the other hand because when is affixed seeing through film 10B it is light - is transparent rising seeing through characteristics to side front desk wind region, front wind region, it is, when, for example, the whole car was watched from a flank, it is when difference in light and shade was able to break a list conspicuously in non-seeing through film 10A in the side and a border with seeing through film 10B.

[0004]

Therefore even if a design of car in itself is good, when appearance was bad at all disorder total harmony in what non-seeing through film 10A, seeing through film 10B were affixed to, it was, and there was not, and seeing through characteristics disturbed view on an abrupt boundary.

[0005]

On the other hand, If, for example, with the wind film which the light and shade that suggested gradation (gradation ... shading off) is set have, it is reached downward conventionally from the upper part along a top and bottom direction of a car, it was

gradually light - because it was accompanied, and it was thickened, it was the thing which got impossible to cope with the regulation to affix this to side wind region again not to be able to find complete non-seeing through characteristics in the rear side of a car.  
[0006]

Thus, For example, this invention does stability in the car body with a thing having gradation operation in front and back direction with the thing that the all affairs feeling that existed conventionally such as the above mentioned is taken warning by, and is done formulation, if the front side is reached from the rear side, bad form characteristics it is accompanied, and to produce by a sudden change of the light and shade as a thing becoming gradually light are prevented, view to be able to put again on the border is found, and safety can be improved, and there is not, and choice of degree such as light and shade width, a pair of swords / the ratio is enabled, and it can be affixed, it is aimed at providing the wind glass business pasting film which handling is easy for.  
[0007]

#### [MEANS TO SOLVE THE PROBLEM]

A horizontal direction of car C set the a sequence of light and shade along front and back direction to wind department film base 1 affixed in a wind glass business pasting film affixed to side wind region W particularly in car C particularly, and, in this invention, it was formed to solve the problem. If it is light by the density in the rear portion side of car C with denseness part 2 thickened the density, and, to film base 1, \*hakubu 4 is reached from denseness region 2 to the front side of car C with \*hakubu 4 it is thin - is done transparently, it is accompanied, and it is gradually light, and it is to a thing it becomes thin - is transparent, it is shaded off, and a division forms part 3 to the intermediate portion husbands whom there is between denseness region 2 and \*hakubu 4, and it can be comprised. It is sectioned to one film base husbands every one used unit, and heavy department 2, shading off department 3, four \*hakubu husbands can be formed, it is done than the number of one units again, and placement can be comprised.

[0008]

In a pasting film for wind glass concerning this invention constructed as above, in car C, when, for example, is affixed to side wind region W by film base 1, of the light and shade again a sequence of \*hakubu 4 which is light with the front side denseness region 2 which is dark in the rear side in those intermediate portion, it makes it is gentle along the front and back direction that is a horizontal direction of car C, and do a change of degree of the light and shade as the whole in what it is shaded off, and part 3 is placed at. It makes cope with shape of side wind region W to make affix by setting such as cutting shape in film base 1, length, size, the ratio of those width that denseness part 2, shading off department 3, \*hakubu 4 are placed at consecutively. In addition, It makes cope with the choice of pasting embodiment in the side front desk wind part which must find view in side wind region W by denseness region 2 which is forward and backward in placement formed shading off department 3, an appropriate combination with length of four \*hakubu husbands particularly midway. Denseness part 2, shading off department 3, four \*hakubu husbands are sectioned to film base 1 every one unit, and it is formed, it makes shape, length, the ratio to go along use embodiment in side wind region W because is done this than the number of every one unit or one units are coped with, and use cutting.

[0009]

[MODE FOR CARRYING OUT THE INVENTION]

When one detailed description of the preferred embodiment of this invention is explained referring to figure 1 - figure 3 as follows, it is the film base that it is, and this film base 1 in itself is affixed to matrix formed on the back side the adhesive layer where the detachment paper that can exfoliate as for code 1 that, in the drawings, is shown (a protective sheet) is attached onto, if, for example, side wind region W of car C is covered enough, those length, shape, size are coped with to be enough, for example, it was compared with the length, shape, size, and an enough big area was included, and it was oblong, and it was done, is done when approximately rectangular. In addition, As for the wall thickness in this film base 1, the whole is formed by approximately uniform depthwise, is assumed that it can be affixed to even which of the outside among side wind department W.

[0010]

And, to this film base 1, light and shade design along a forward and backward course of side wind department W that film base 1 in itself is affixed to is taken. In other words, It is done with denseness region 2 which is done for the purpose of the density is thickened in the rear side that is the rear wind department side, and seeing through characteristics to the inside becoming difficult, it is done with \*hakubu 4 assumed that outside a car can be seen enough through it is thin - and it is light with the front side which is the front wind region side, and it is done transparently, if \*hakubu 4 is reached from denseness region 2 in the intermediate portion which there is between denseness region 2 and \*hakubu 4, it is accompanied, and it is gradually light, and there is for shading off department 3 where it is to a thing it becomes thin - is transparent.

[0011]

Denseness part 2 in itself is formed with a coloring agent of, for example, black provided this kind of wind film system, the coloration / polarized light to make it be contaminated with colors - non-seeing through processing similarly conventionally, the color, degree of the density are set appropriately, if it is necessary again, a reflection agent, infrared rays absorbent can be mixed.

[0012]

In addition, If it does not have a hindrance that \*hakubu 4 in itself looks at outside a car from the inside of car, and, for example, the legal regulation is coped with, is formed as a thing of enough degree. In addition, It is desirable that it is with a thing comprising polarized light characteristics having a UV cut function, for example, to prevent invasions such as ultraviolet rays to prevent an invasion of outside light for the body inside by making provided outside light reflect in this \*hakubu 4 conventionally.

[0013]

On the other hand, If shading off part 3 in itself reaches \*hakubu 4 from denseness part 2, it is taken, and become gradually light, and is done serially smoothly when is changed on a thing of the light and shade for denseness region 2 or \*hakubu 4 serially, for example, quantity of change of the light and shade is displayed as light and shade degree of chart below in FIG. 3.

[0014]



Even if it is which though it is done with the same color in these densenesses part 2, shading off department 3, whichever of \*hakubu 4 from the start though it is done with a different color, if at all events, without hindrance, stability of car C - the continuous light and shade along front and back direction are set, it is enough.

[0015]

Thus For example, film base 1 in itself is formed in denseness region 2, the thing that it is shaded off, and department 3, \*hakubu 4 are placed at consecutively repeatedly every unit of film base 1 with a thing formed continually by the film material which is lengthiness of a reel of film or tape of predetermined width as shown in FIG. 3. In other words, Order forms heavy department 2, shading off department 3, \*hakubu 4 to one film base husbands every one unit next, there is a border of one film base husbands to be next to as denseness region 2 and a transition section with \*hakubu 4. When it does it this way, for example, length L of the whole film base 1 every one unit assumes about 100cm as shown in FIG. 3, about 50cm length L1 of denseness part 2 is shaded off, and length L2 of department 3 does with about 20cm, there is length L3 of \*hakubu 4 for about 30cm. These film bases 1, denseness part 2, shading off department 3, length of four \*hakubu husbands are not limited from the start by these, is set by length along front and back direction of side wind region W in itself appropriately, when is provided as an article, for example, some versatility for various car C is done every every one unit or 1.5 - higher than number of one units such as two units as a thing of the length that there is, and is set. In addition, Besides, in embodiment shown to in FIG. 3, the figure expressed the light and shade for simulation, as for the chart below, is expressed degree of the light and shade for simulation.

[0016]

Next, If an example of use of this is explained, after detachment paper in one film base back side was exfoliated, and having exposed an adhesive layer to light, it is affixed to either of the inside and outside side in side wind department W. For example, the whole affixes a dark wind film in side rear wind part as shown in FIG. 1 then, film base 1 set the light and shade is affixed to the front and back direction that denseness region 2 sets those length in the rear side properly so that \*hakubu 4 is located in the front side, and these are coped with, and denseness region 2, an end of four \*hakubu husbands are cut, and was removed in side front desk wind part. In this case Even if the whole car C was watched, the thing that the light and shade along a forward and backward course are set only by side front desk wind part is become.

[0017]

In addition, It is assumed that it was done and, for example, the total light and shade affix a thin wind film in side front desk wind part as shown in FIG. 2 or without affixing, film base 1 set the light and shade is affixed to the front and back direction that denseness region 2 sets those length in the rear side in side rear wind part properly so that \*hakubu 4 is located in the front side, and these are coped with, and denseness region 2, an end of four \*hakubu husbands are cut, and was removed. In this case When the whole car C is watched, it is to a thing set the light and shade along front and back direction that side front desk wind part is gone over to by side rear wind part.

[0018]

As the thing which it makes side rear wind part, length such as side front desk wind parts, shape, size support then, and denseness region 2 which is forward and backward, length

of four \*hakubu husbands are set, and it is shaded off in the meantime, and department 3 was placed at, the use part is chosen appropriately, and film base 1 should be cut in predetermined shape. In addition, When is prepared every one unit by a case beforehand, cutting can use a thing comprised plural units without being limited.

[0019]

In addition, When one piece of side wind department W is glass constitution, it should be affixed similarly, The important thing is when it is shaded off in \*hakubu 4, the meantime, and part 3 is placed at denseness region 2, the front side, it is, and is used in a forward and backward direction in car C by the rear side. In addition, Shading off department 3 can be placed at heavy department 2, a rear side to the front side by a case in \*hakubu 4, the meantime. Furthermore, illustration was omitted, but it may be decided to remove cutting in a part corresponding to a part looking in a side mirror attached by the body of car C.

[0020]

In addition, In rear wind department, it is assumed that it is shaded off in \*hakubu 4, the intermediate portion in the central portion as shown in FIG. 1 in denseness region 2, right and left side, and department 3 is placed each and is preferable though it is affixed to assume that it is shaded off in denseness region 2, the intermediate part in the central portion as shown in FIG. 2 in \*hakubu 4, right and left side, and department 3 is placed each. It may be assumed that the other sides are extended over from the start from a side of either of right and left, and denseness region 2 are shaded off, and department 3, \*hakubu 4 are placed.

[0021]

#### [EFFECT OF THE INVENTION]

As for this invention, it is with a thing having gradation operation in a direction mixed up in what, for example, is affixed to side wind department W in the car C body to be constructed as above, if the front side is reached from the rear side, that it is in the appearance that is a bad form it is accompanied, and to produce with a sudden change of the light and shade as a thing becoming gradually light is prevented, and it is with the embodiment that, as a whole, is stylish. In addition, Because it is different conventionally, and a sudden change to be able to put on a border with heavy part and \*hakubufun disappears, view is found, and safety can be improved, and the light and shade between their things enable choice such as length of the each part which there is, the ratio because it is shaded off, and department 3, \*hakubu the fourth class continue smoothly, and it is cut with shape corresponding to size / shape of side wind region W, and it can be affixed, handling is easy.

[0022]

In other words, If this is affixed to side wind department W in car C in this invention, it is done case, the reason is because it was done when the a sequence of light and shade to go along affixed film base 1 in the horizontal direction of car C are set, and is formed, and it can dissolve for sense of incongruity by a sudden change of the conventional light and shade in colored side wind region W, it can be done with a thing of good embodiment of appearance stylish hereby.

[0023]

In addition, If similarly, to film base 1, \*hakubu 4 is reached from denseness region 2 to the front side with \*hakubu 4 the density is light in the rear side of car C with dark denseness part 2 of the density - is transparent, it is accompanied and is gradually light - becomes transparent, because it is shaded off, and is formed a division between denseness region 2 and \*hakubu 4 in part 3 each, it can make it is gentle in front and back direction of car C, and do a change of degree of the light and shade as the whole when this was affixed to side wind region W, when the whole car C was watched, extremely fresh appearance is presented, a good appearance impression is given.

[0024]

Because denseness part 2 in film base 1, shading off department 3, four \*hakubu husbands can form a division to one film base husbands every one used unit, side wind region W is come to by pasting use every use unit, shape of side wind region W to make affix by setting such as cutting shape in film base 1, length, size is coped with, and the a sequence of light and shade can be set.

[0025]

Furthermore, placement facilitates appropriate setting of the light and shade along front and back direction of car C by denseness region 2 which is forward and backward in formed shading off department 3, an appropriate combination with length / the ratio of four \*hakubu husbands midway by it is done larger than the number of one units, and cutting in placement constitution, because, in side front desk wind part assumed that view in side wind region W must be found particularly, shape, length make each kind enable the choice corresponding to different pasting embodiment, it is extremely convenient.

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